FTS-CDC-PHPPO

October 20, 2004 12:00 p.m. CDT

Coordinator

The call is about to begin. We do appreciate everyone's patience for today's Select Agent teleconference call. Today's conference call is also being recorded for Net replay purposes. Any objections, you may disconnect at anytime. Today's conference call, there will be a Q&A session.

Let me introduce our first presenter for today's conference call, Ms. Susan Shiflett, you may begin when ready.

S. Shiflett

Good day. Welcome to the 2004 Public House Teleconference Series on Infectious Disease. This is Susan Shiflett, Laboratory Training

Coordinator in the Office of Public Health Preparedness at the Michigan

Department of Community Health in Lansing, Michigan. Today's teleconference is being hosted by the Michigan Department of Community Health and is sponsored by the National Laboratory Training Network in

cooperation with the State Public Health Laboratories. Welcome to our

Teleconference Select Agent Rule Update.

After the program, each participant needs to register and complete an

evaluation form. Documenting your participation helps us to continue to

bring high quality training programs in a variety of format. To do this,

you need to go to the Web site http://www.phppo.cdc.gov//phtnonline/ and

the password is select. When you have completed the registration and

evaluation form, you will be able to print your CEU certificate. You will

have until November 20th to complete this process. These instructions are

in your original confirmation letter and in the general handout. They were

also e-mailed to each site representative this morning.

If time permits at the end of today's program, it will be opened up for

questions. You are in a listen-only line. We cannot hear you. You can

only hear us. Again, welcome and thank you for joining us. We have 59

sites today from across the United States listening to this teleconference.

Today's speaker is Dr. Charles Brokoff. Charles Brokoff is the Director

of the CDC Select Agent Program. Prior to moving to Atlanta in August,

he was the Director of the Division of Epidemiology and Laboratory

Services for the Utah Department of Health. He has also been in the Public Health laboratory director in Oregon and Idaho. He has degrees in the University of Wisconsin where he got his BS in Biology and a BS in Medical Technology, and the University of North Carolina where he received his MPH and DrPH. His 30 years in public health have primarily been at the state level, where he has worked closely with many local, state, federal, and private, public health and environmental organization. It is my pleasure to introduce to you and to welcome our speaker, Dr. Brokoff.

Dr. Brokoff

Thank you, Sue. I appreciate this opportunity to talk with you today about the Select Agent Program. In this presentation, I will provide an overview of the CDC regulation 42 CFR Part 73 also known as the Select Agent Rule. We'll also describe how the federal agencies, primarily CDC, USDA and Department of Justice are working together to implement this program.

Slide two: The CDC Select Rule had its origin in the year 1995 when a number of events occurred that caused congress and the federal government to review existing federal regulations restricting the acquisition of biological agents and toxins. It was noted that for some

human pathogens, there were no licensing or registration requirements for

entities that are transferring these agents within the United States.

Nobody really knew who had these agents or whether or how they were

being transferred.

In addition, there were no uniform safety standards or entities that were

performing these transfers. As a result, congress passed Section 511 of

the anti-terrorism and affected Death Penalty Act in 1996, which directed

the secretary of health and human services to establish a list of biological

agents and toxins that have the potential to post a serious threat to public

heath and safety. It also required HHS to establish, through regulation,

procedures for the transfer of those agents including, among other things,

ensuring that those entities have the appropriate training and skills to

handle those agents safely and that entities have the proper laboratory

facilities to contain and dispose of those agents.

Slide three: The Centers for Disease Control and Prevention or CDC was

delegated by HHS the responsibilities for promulgating and implementing

the regulation. The regulation became known officially of Section 72.6 of

Title 42 of the Federal Court of Regulations and is titled Additional

Requirements for Facilities Transferring or Receiving Select Agents. This

section was added to an existing CDC regulation that set minimum

packaging and labeling requirements for interstate shipment of etiologic

agents.

Slide four: Fundamental components of the regulations were: one, a list of

38 biological agents and toxins were listed in appendix A of Part 72. I'd

like to mention that a current list of the Select Agents was also posted as

one of the handouts for you to download prior to the presentation. This

list is also available at the CDC Select Agent Program Web site, as shown

on slide 44.

The regulation also required registration of facilities that intend to transfer

these agents. It requires that each entity designate a responsible official

who is required to certify that the entity meets the requirements for safe

handling of these agents. The regulation further addressed transfer

requirements and established a procedure for the reporting of transfers.

There's a verification procedure for the regulation that involve the

inspection of registered entities and, upon termination of use, the agent

must be destroyed on site. This regulation contained a few or contained

an opportunity to write some specific research and clinical exemptions.

Slide five: All this changed based on the terrorism events of 9/11 and the anthrax events in October of 2001. Congress quickly strengthened the

anti-terrorism legislation.

Slide six: The first legislation task was the US Patriot Act. One section of

that Act defined the term "restricted person". If an individual meets the

definition of a restricted person, that individual cannot have access to

select agents or toxin.

Slide seven: The Public Health Security and Bio Terrorism Preparedness

Response Act in 2002 was signed by President Bush on June 12, 2002.

This act authorized the regulation of not only the transfer, but also the

possession and use of select agents and toxins. Title 2 sub-part A of this

Act significantly changed the regulatory authorities of HHS under Section

511 of the 1996 Anti-Terrorism Act. Sub-Part B of the Act granted

comparable regulatory authority to the Department of Agriculture or

USDA for biological agents and toxins that present a severe threat to plant

and animal health or to plant and animal products. It also required USDA

and HHS to coordinate activities in regard to those agents that would be

regulated by both agencies. These agencies are referred to as overlap

agents, which are somatic agents that have the potential to cause a severe

threat to public health and safety as well as animal health.

Slide number eight: I mentioned earlier that the statute required that several activities be coordinated with USDA. Specifically, in regards to overlap agents, the statute gives the public the opportunity to submit their application to either agency. Therefore, the entity has the choice of submitting an application for an overlap agent to either USDA or HHS. These two agencies are required to coordinate the review of the registration application. Entities with overlap select agents and toxins require concurrence of the other agency regardless of where the application is sent.

Slide nine: Some of the significant changes in the legislation are the requirements that entities, that possess these agents, would need to be registered. The original '96 legislations dealt solely with entities that intended to transfer the regulation. So this is a very important distinction between the two major pieces of legislation. In addition, the new legislation also required the establishment of safety and security requirements for entities working with these agents. As part of the security requirements, the attorney general is required to perform an electronic data check on the entity, the owner, or controller of the entity

and those individuals identified by the entity as needing access to those

select agents on either the HHS or USDA regulations. This security

requirement had become known as a security risk assessment and is

performed by the Federal Bureau of Investigation, Criminal Justice

Information Services Division or what we commonly referred to as CJIS.

The Security Risk Assessment is primarily for the purpose of identifying

whether individuals meet one of the prohibitors specified under the U.S.

Patriot Act. The Act specifically mandates that exemptions are authorized

and narrow the exemptions that were to be allowed under the old

regulation.

The Act added provisions to allow the federal government to protect

sensitive and site-specific information and it strengthened the criminal

penalties that could be levied for violation of the Act. In addition, there is

a requirement for the entity to immediately notify either USDA or HHS of

the theft, loss or release of any of these agents and the requirement, on the

federal government's part, to handle a report and a notification of theft,

loss or release to congress. The Act also required an initial reporting of

the possession of select agents and toxins.

Slide ten: On December 9, 2002, the interim final rule was on display for

the public and was later published in the Federal Register on December 13th of that year. The new regulation is titled *Possession, Use and Transfer of Select Agents and Toxins* is found in Title 42, Part 73 in the code of Federal regulations. A provision of the Act allowed for the phasing in of the implementation so that ongoing research and educational activities would not be impeded. For example, the new security requirements require developing and implementing a security plan and going through the security risk assessment process. Full implementation was required under the interim final rule on November 12, 2003.

Slide 11: One of the tasks of our interagency workgroup was to update the list of agents and toxins.

Slide 12: The establishment of select agents and toxins was a work of the interagency workgroup that I mentioned earlier. The workgroup considered the following factors when placing an agent or toxin on the final Select Agent list. They considered the effects that the agent or toxin would have on human and animal health, degree of contagiousness, mode of transmission and if there were any adequate vaccine or therapies available for the agent. In addition to input from the interagency workgroup, comments were also sought through publication of a notice in

the Federal Register.

Slide 13: As you can see here, beside some deletions and a few additions,

the list did not significantly change compared to the original list published

in Section 72.6. However, there were some clarifications, most notably

for variola viruses, botulinum neurotoxin and Shiga toxins.

Slide 14: In 2002, legislation established the authority to create three lists

of agents: those agents that are solely regulated by HHS, those that are

regulated only by USDA, and those that are jointly regulated by both

departments, which are referred to as overlap agents.

Slide 15: This slide shows the agents, the viruses, bacteria, fungus and

toxins that are regulated by each of the two agencies. There are 20 HHS-

only agents, 19 overlap agents, and 33 agents or toxins that are regulated

solely by USDA.

Slide 16: Under the old regulation, there was a research exemption for

toxins based only on the potency of the toxin. The interagency workgroup

was tasked with reviewing this exemption and making recommendations

for improvements.

Slide 17: The interagency workgroup recommended that the exemption be based not only on the potency of the toxin, but also the amount of toxin any researcher would be allowed to possess. The intent of this recommendation was to base the exemption on public health concerns and not concerns of whether this would be misused to harm one or two individuals, but if the toxin could be used to harm a large number of individuals. The threshold amount was structured such that if an individual responsible for the control of that toxin possessed less than the

threshold amount, then it would be excluded from the requirements of the

regulation.

Slide 18: This slide shows information from the new regulation, including the amount of toxin and the potency of the toxin. It applies only to the aggregate amount of toxin under the control of a principle investigator not necessarily the amount listed here. The CDC did not want to regulate every dermatologist who might have small quantity of botoxin for use in their office.

Slide 19: The interagency workgroup also provided recommendations on updating the genetic elements recombinant nucleic acids and recombinant

organisms section of the regulation.

Slide 20: Recommendations were to regulate genetic elements from the listed viruses that were in a host system or vector that is capable of producing a live virus. Genetic elements that encode for a functional form of any of the listed toxins would also be regulated provided that the genetic element is in a vector or host system. The intent of this regulation was to recognize the risk and concern for those individuals working with a viable agent, but not with the extracted nucleic acids, unless the nucleic acid was placed back into a system that would allow for the replication of complement forms of the select agent viruses or the potential expression of a functional form of the listed toxin.

Slide 21: The Office of Biotechnology Activity at the NIH has expressed concern over two types of experiments described in the NIH recombinant guidelines. Under these guidelines, entities receiving federal funds are prohibited from performing these experiments until they receive NIH approval. However, if an entity was not receiving federal funds, they were not required to follow the guidelines. NIH has proposed the adoption of the language of their recombinant guidelines into the new Select Agent Rule. Now, any entity that intends to work with the select

agent that meets one of these two restricted experiment provisions is

required under the Select Agent Rule to receive federal government

approval through the Select Agent Program before these experiments can

be conducted.

Slide 22: The interagency workgroup also provided recommendations on

exclusions from the regulation. I will now review the exclusions and

exemption provisions of the interim final rule.

Slide 23: The select agent or toxin maybe excluded from the regulation if

it is in a form or, in the case of toxins, in an amount that no longer meets

the definition under the statute of posing a severe threat to public health

and safety. For example, select agents and toxins in their naturally

occurring environment, such as ricin in the castor bean, can be excluded

from the regulation and the less the ricin is extracted from the castor bean.

The new rule also recognizes that organisms that have been treated so that

they are no longer able to replicate, such as treatment by gamma radiation

or other appropriate means in which the organism has been rendered non-

viable, are not subject to Select Agent Rule. Likewise, toxins that have

been rendered non-functional are not subject to the Select Agent Rule.

You are not required to register if the aggregate amount of the toxin under

control of the principle investigator is below the specific amounts shown

in the regulation.

Slide 24: The new rule allows the government to exclude attenuated

strains of select agents from the requirements of the regulation. Some

excluded strains were published on December 13, 2002 along with the

interim final rule.

Additional requests or exclusions have been received, and after the review

of those requests, if the attenuated strains of the select agents were

determined not to pose a severe threat to public health and safety, those

excluded attenuated strains are posted on both the CDC and USDA Select

Agent Web sites.

Slide 25: Several exemptions to this Act were mandated by congress.

They included exemptions for clinical and diagnostic laboratories

performing diagnosis, verification or proficiency testing, and products that

have been approved for use by a Federal Act such as FDA. Exemptions

may also be allowed for investigational products, as needed, to respond to

a public health or agricultural emergency. CDC Form 1317 issues to

request such exemption.

Slide 26: Under the new rule, the same fundamental principles were adopted as described under the older rule. However, the new rule requires registration for possession of select agents or toxins in addition to intent to transfer those agents or toxins. Again, the new rule adopted the provision of having the entity identify a single point of contact to represent the entity, which we refer to as the responsible official or RO. The Act requires that the entity, the owner, the responsible official and individuals who need access to these agents and toxins undergo a security risk assessment conducted by the FBI. Transfers must now be approved in advance using a CDC Form EA101, and the entity must develop and implement site-specific safety and security plans.

The entity must maintain accountability for various types of records.

Some of the records that need to maintain include an inventory of the select agents or toxins, an inventory of who has access to the select agents and toxins, who has a list of people who have access to the areas where select agents and toxins are stored, and transfer documents with the transfer between entities and within the registered entity. Entities must establish emergency response plans and report theft, loss and release of any select agent or toxin. The entity is also required to conduct safety and

security training.

Slide 28: Guidance and references for developing your safety plan come

from the BMBL Fourth Edition. Guidance on handling of toxins comes

from OSHA, and guidance on recombinant select agents is on the

guidance that's available from the NIH. The exact references for this

guidance are shown on the slide.

Slide 29: Guidance with development of your laboratory security plan was

published in the MMWR on December 6, 2002.

Slide 30: The regulation requires that an entity allow access to select

agents and toxins only to individuals that have an approved security risk

assessment. Access means the ability to gain possession of a select agent

or toxin. In other words, if you are able to get your hands on a select

agent or toxin, you have access to that agent or toxin, and you are required

to have a security risk assessment performed prior to that access.

Slide 31: The interim final rule provides two mechanisms to prevent

access. The first is a physical barrier. You can lock the door and you can

lock the container, such as refrigerator or freezer where the agent is

stored; that provides a physical barrier. The second mechanism to prevent

access is by the allowance of someone who already has authorization from

the entity and has received security risk assessment approval to escort

another person into the area. The authorized individual must be present at

all times and serve as a barrier preventing the unauthorized person, for

example the maintenance for cleaning personnel, from having access to

the select agent or toxin.

Slide 32: A current list of persons with an approved SRA must be

maintained. In addition, access in and out of areas where select agents are

used or stored must be documented.

Slide 33: An inventory of select agents and toxins must be maintained at

all times. Copies of all transfer documents must also be maintained.

Slide 34: In the Act, the attorney general was delegated the responsibility

for performing the security risk assessments or electronic database checks,

while the Department of Justice, FBI - Criminal Justice Information

Services Division was identified of having responsibility for

implementing this provision, and performing these database checks and

providing the information. Depending on the lead agency, they would

provide this information back to either HHS or CDC or to USDA.

Slide 35: There are a few categories of individuals who are prohibited

from having access to select agents. These are individuals who have been

convicted of various felons. They are persons to be known to be involved

with domestic or international terrorism or with organizations associated

with terrorist events, would not be allowed to obtain a SRA. Persons who

are agents of foreign powers are also excluded from obtaining a SRA.

Slide 36: Under the Act, the penalties for noncompliance have been

strengthened and are shown on this slide. Use of penalties is a final

option after other less restricted means to obtain compliance have not

been successful.

Slide 37: A number of entities registered with CDC and APHIS or USDA

is shown on this slide. Eighty-two percent of the entities are registered

with the CDC Select Agent Program.

Slide 38: This slide shows the type of agent or toxin entities are registered

for. Ninety-one percent of all entities have overlap agents or toxins.

Slide 39: When we look at just the CDC led entities, 30% of those entities

are state and local public health laboratories. Another 29% or 30% are

academic laboratories, and others include government, commercial and

private laboratories.

Slide 40 show the types of agents associated with the CDC-led entities.

About half the CDC-led entities have HHS only and overlap agents or

toxins.

Slide 41: I'm sure you can see why it's very important that the CDC and

USDA coordinate their efforts to implement the Select Agent Program.

The registration and inspection processes only require dealing with a

single designated lead agency.

Slide 42: In summary, the CDC Select Agent Program works closely with

the Department of Justice, FBI, and with the Department of Agriculture,

Animal and Plant Health Inspection Services. Each agency has a different

role and approach to their responsibilities to implement this program.

Slide 43: During the next year, the Select Agent Program will be making

some changes. We are working on a Web-based registration and

amendment process that should make submitting the forms easier for both

entities regulated by CDC and USDA. The focus will be on helping

entities comply now that the first round of compliance inspections have

been completed. We have tasked the contractor to obtain input from

entities that will be used to streamline and simplify the process of

compliance. Your input will be important as we move forward with this

effort.

Slide 44: This slide is a list of the Select Agent Program contacts for the

various agencies involved. If you have any questions, feel free to contact,

call these numbers or check the Web sites that have been listed on the

slide.

Slide 45: If we have a little bit of time, I'd be happy to take some

questions, but I would first like to acknowledge Mr. Mark Hemphill,

Policy Director for the CDC Select Agent Program, and Dr. Leann

Thomas, Director of the USDA Select Agent Program, for their assistance

and their input into today's presentation. Thank you.

S. Shiflett

Thank you, Dr. Brokoff. We will now take your questions.

While we were waiting for questions, Dr. Brokoff, I have a question for

you. What is the relationship between the Select Agent Program and the

CDC Import Permit Program?

Dr. Brokoff

That's a very good question. We've received several inquiries recently

about the import programs that CDC and USDA have.

The CDC actually is operating under a regulation that requires anyone

importing into the United States any etiologic agent or an arthropod, or

animal host, or vector of human disease, obtain a permit from the director

of CDC prior to that import. In reality, however, that does not happen.

At the present time, we do have an import program that is being managed

closely with the Select Agent Program. The CDC program in reality,

however, does require imports for certain types of animals, such as live

bats. Import permits are required for nonhuman primate skins and tissues

and also require the CDC permit.

Coordinator

We currently have a question from the Nebraska Public Health Lab.

M

I'd like to know why the Hantavirus and Yellow fever were deleted from

the select agent list?

Dr. Brokoff

I guess, I would have to pass to Paul—I do not have an answer to that question. That happened prior to my arrival here at CDC and that's one I haven't been asked before. If you would make a note of that or submit it, we'll get you an answer and get it back to you as a result of this conference.

M

Thanks.

Coordinator

Our next question comes from the State Laboratory Division.

R. Sciulli

This Rebecca Sciulli from the Hawaii State Lab. My question is, if a clinical laboratory has isolated a specimen that was identified by CDC as brucella melitensis and the clinical laboratory destroyed all the original specimens and the isolate, are they required to submit an EA101 to the CDC?

Dr. Brokoff

Yes. The clinical lab would be required to submit, not an EA101 because you destroyed it, but you would be required to submit – it's a form called 1318, which is the report of an isolation by a clinical laboratory. On that

form, you would indicate that you have destroyed the organism after it was released or after it was identified.

R. Sciulli

Thank you.

Coordinator

Our next question comes from the Department of Health Main Maryland.

W

Hi. This is regarding sharing information, biological agent registry information with local jurisdictions. That is, what eligible agent is in their specific county?

Dr. Brokoff

I'm not sure I understand what you're asking.

W

To rephrase it, to let the county know what agents one of their facilities might have in case of a first responder, a fire, what have you?

Dr. Brokoff

The information that's reported to the Select Agent Program is held pretty tight to our chest. The information is not made available to others outside the program to the degree that you could identify an entity by name or location, or the organisms or toxins that might be found within that entity. So that information is not, I say readily available for purposes like that.

W

Thank you.

Coordinator

Next question comes from Colorado Department of Public Health.

J. Beebe

This is Jim Beebe, Laboratory Services Division. For applicants for Select Agent certification, if they do not have any select agents, but merely use the checklist in the application to indicate that they want to obtain the agents, will they be certificated for them even if they don't list them on their inventory?

Dr. Brokoff

Good question, Jim. If the entity is going to be registered for some of the select agents, but you want to indicate on their application that you would like to receive some of the others, that entity would go through an inspection process and could be registered.

J. Beebe

So the entity would, let's say, has three agents that does not possess yet, it would be basically certificated for those agents even though it doesn't have them yet.

Dr. Brokoff

Most likely we would be able to do that, Jim.

J. Beebe

Thank you.

Coordinator

Our next question comes from the Public Health Department in Chicago,

Illinois.

T. Oldfield

This is Terry Oldfield. I've been wondering if it could possibly review the

notification procedures for laboratories that discover a clinical sample that

they may have a select agent in?

Dr. Brokoff

If a clinical laboratory—are you talking about the clinical laboratory that

might isolate one of these agents? If a clinical laboratory isolates a select

agent or identifies one of these toxins, that laboratory is required to obtain

and complete what we refer to a CDC Form 1318. That form describes

the source of the agent, the amount identified and how that agent is going

to be disposed of a clinical laboratory and ship that to—a clinical

laboratory that is not a registered entity can either destroy the material on

site or they can ship that to a registered entity. If they plan on shipping it

to a registered entity such as their public health lab or to some other

laboratory, then an EA101 form would have to be completed prior to the

shipment of that organism, agent or toxin to another entity.

Coordinator

The next question comes from the Tennessee Department of Public

Health.

D. Brown

Yes. This is Diane Brown. When an entity receives an overlap agent,

could you review the process of acknowledgment?

Dr. Brokoff

If an entity has requested or receives an overlap agent, the form EA101

should accompany the form. That form needs to be completed and then

submitted to the lead agency. If the receiving entity uses USDA as the

lead agency, the form would be either e-mailed or faxed to USDA. If

CDC is the lead agency for the receiving entity, the form would come here

to CDC.

Coordinator

Our next question comes from the Minnesota Department of Health.

Yes. This is a follow up to your answer about a clinical laboratory

W

isolating a select agent. If they have identified it as a select agent and then

subsequently transfer it to the state department of health, you said they

needed to do that using an EA101. However, the EA101 requires that

both the recipient and the sender be registered laboratories and, in this

case, a clinical laboratory would not be a registered select agent

laboratory. I think we've gone around about that a number of times with

questions about that. Can you clarify that please?

Dr. Brokoff

Let me take a crack at clarifying that for you. If the clinical laboratory

submits that organism to the public health laboratory and they simply call it a clinical specimen, then they would not have to be a registered entity.

In some cases, that is the way that clinical laboratories could have gotten

around becoming registered in and that is acceptable to us.

Coordinator

Thank you. Our next question comes from the Arizona State Laboratory.

G. Cage

This is Gary Cage. We live in an endemic area for coccidioides and we see this constantly. We're just kind of curious as to why cocci is on the

Dr. Brokoff

Gary, that's something I cannot answer. I know there were some thought given to some of these other agents, but that's something that the interagency workgroup will probably consider again.

Coordinator

Our next question comes from the Wisconsin State Lab.

list and the others like histo are not.

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D. Warshauer

This is Dave Warshauer. You mentioned that nonviable select agent organisms are exempt. Is it possible for a select agent lab to, say, take a gram stain or a formalinized killed organism to another lab for training

purposes?

Dr. Brokoff

Yes. It would be, Dave.

D. Warshauer

Thank you.

Coordinator

Thank you. At the moment, I currently show no further questions.

S. Shiflett

Okay. Well I think that's good for the day. At this time, I think we have actually run out of time for questions. So if you do have a question and it hasn't been answered, please e-mail your questions to neoffice—that's for the Northeast Office—@nlpn.org. Dr. Brokoff will then answer your questions by an e-mail. Again, that e-mail address is neoffice@nlpn.org.

Again, I would like to remind all the participants listening to our program today to register and complete an evaluation form by November 20th. The directions for this are on your confirmation letter and in the general

handout. They were also e-mailed to each site representative this

morning. Documenting your participation help us to continue to bring

high quality training programs in a variety of formats. When you've

completed the registration and evaluation form, you will be able to print

out your CEU certificate. That concludes our program for today.

Our next teleconference will be on November 17th; the topic will be

Veterinary Diagnostic Laboratory. The co-sponsors of today's program

would like to thank our speakers, Dr. Charles Brokoff from the Michigan

Department of Community Health in Lansing, Michigan. This is Susan

Shiflett. Have a good day.